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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: SUNDARAM, Mani et al.

Group Art Unit: 2878

Serial No. 10/781,523

Examiner:

Filed: 02/18/2004

Atty. Dkt. No: 20030128-CIP

For: QWIP WITH ENHANCED OPTICAL COUPLING

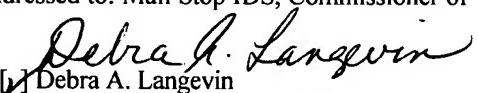
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Date: May 24, 2004


Debra A. Langevin

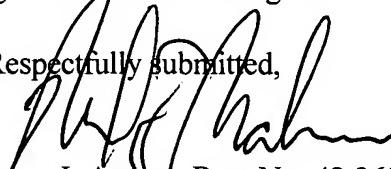
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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Transmitted herewith is the Applicant's Information Disclosure Statement, 2 sheets form PTO/SB/08A and/or PTO/SB/08B, and 7 references and other information. Pursuant to 37 CFR 1.98 (a)(2)(i) applicant has not transmitted herewith copies of cited U.S. Patents and U.S. patent application publications as the above application was filed after June 30, 2003. Please enter in the above application and communicate in all related matters with the undersigned.

DEPOSIT ACCOUNT 190130 AUTHORIZATION – All necessary fees are intended to be included, however the Office is hereby authorized to charge any deficiency or credit any overpayment in the fees to the above deposit account, owned by BAE SYSTEMS Information and Electronic Systems Integration Inc. an authorized signator for which is Kevin M. Perkins, V.P. & Company Counsel, and for whom the undersigned are authorized agents.

Respectfully submitted,


Scott J. Asmus, Reg. No. 42,269
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Commissioner:

INFORMATION DISCLOSURE STATEMENT

Applicants submit this statement and the attached 2 sheet(s) of form PTO/SB/08A and/or PTO/SB/08B and 7 references and other information in accordance to the duty of disclosure under 37 C.F.R. §§1.56, 1.97, and 1.98, and requests consideration hereof. Pursuant to 37 CFR 1.98 (a)(2)(i) applicant has not transmitted herewith copies of cited U.S. Patents and U.S. patent application publications as the above application was filed after June 30, 2003.

Compliance with 37 C.F.R. §1.97: This Information Disclosure Statement is filed within three (3) months of the filing date of a National Application or before the mailing date of a first office action on the merits. No fee or certification is required.

Information Cited: The Applicants hereby make of record in the above-identified application, the information listed on the attached form PTO/SB/08A and/or PTO/SB/08B. The order of presentation of the references should not be construed as an indication of the importance of the reference. As all the references listed on attached Form PTO/SB/08A and/or PTO/SB/08B are in English, no commentary is required.

Remarks: A copy of each reference, together with a listing on Form PTO/SB/08A and/or PTO/SB/08B, is submitted herewith. Applicants respectfully request that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;

2. The enclosed form PTO/SB/08A and/or PTO/SB/08B be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application; and

3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

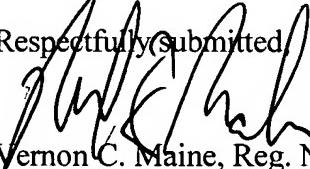
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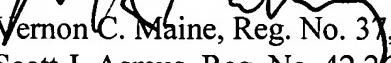
By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined in 37 C.F.R. §102.

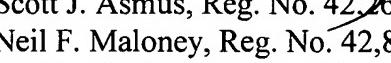
Notwithstanding any statement by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

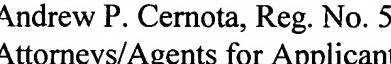
An early and favorable action is hereby requested.

Respectfully submitted


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Neil F. Maloney, Reg. No. 42,833


Andrew P. Cernota, Reg. No. 52,711

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

Complete if Known

Application Number	10/781,523
Filing Date	02/18/2004
First Named Inventor	SUNDARAM, Mani
Art Unit	2878
Examiner Name	
Attorney Docket Number	20030128-CIP

Sheet 1 of 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
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Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/781,523
				Filing Date	02/18/2004
				First Named Inventor	SUNDARAM, Mani
				Art Unit	2878
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	20030128-CIP

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		"Tridirectional Gratings as Improved Couplers for QWIPs", NASA Tech Briefs, May 2000, pp 1-3, NPO-20703, NASA'S JET PROPULSION LABORATORY, Pasadena			
		"Metal Side Reflectors for Trapping Light in QWIPs", NASA Tech Briefs, June 2003, pp 1-2, NPO-30507, NASA'S JET PROPULSION LABORATORY, Pasadena, CA.			
		"qwip:Frequently Asked Questions", qwip.jpl.nasa.gov, 2000, pp 1-2, NASA Jet Propulsion Laboratory, Pasadena, CA.			
		"qwip:Frequently Asked Questions", qwip.jpl.nasa.gov, 2000, pp 1-3, NASA Jet Propulsion Laboratory, Pasadena, CA.			
		GUNAPALA, S. D. et al., "640x512 Pixel Four-Band, Broad-Band, and Narrow-Band Quantum Well Infrared Photodetector Focal Plane Arrays", pp 1-12.			
		GUNAPALA, S. D. et al., "640x486 Long-wavelength Two-color GaAs/AIGaAs Quantum Well Infrared Photodetector (QWIP) Focal Plane Array Camera", pp 1-24.			
		GUNAPALA, S. D. et al., "Quantum Well Infrared Photodetector (QWIP) Focal Plane Arrays", Semiconductors and Semimetals, 1999, pp 1-83, Vol. 62.			

Examiner Signature	Date Considered

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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